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(54) METHOD OF PURIFYING POLYPHENYLENE

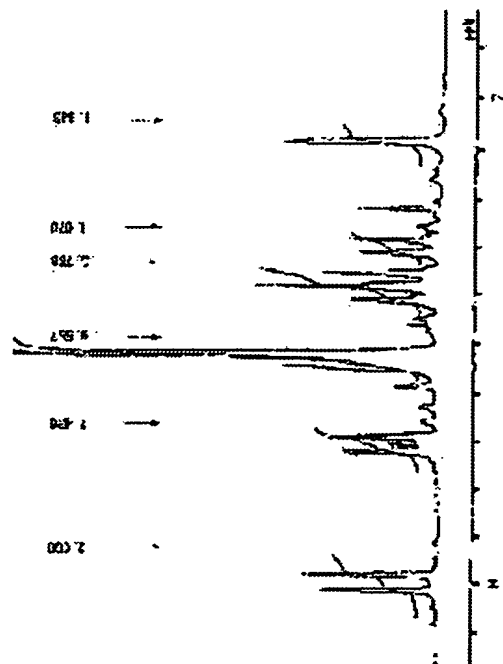
(57)Abstract:

PROBLEM TO BE SOLVED: To provide an efficient method of purifying polyphenylene.

SOLUTION: Polyphenylene is purified through the following steps:

(step 1) the crude reaction mixture including polyphenylene is dissolved in a solvent, the solution is concentrated and the resultant impurities are removed by filtration and the filtrate is concentrated to collect the resultant solid. These works are repeated once or more times; (step 2) the solid obtained in the step 1 is dissolved in a solvent and further the solvent is added.

The resultant solution is concentrated by adding another more solubilizing solvent. Then, the first crystals are separated by filtration, the filtrate is concentrated again to separate the second crystal in the similar way and the first crystals and the second crystals are combined; (step 3) after the step 2 the first and the second crystals are dissolved in a solvent, followed by addition of a poor solvent and the solution is concentrated to separate the third crystals by filtration. The similar operations are repeated again to obtain the fourth crystals. Then, the third and fourth crystals are combined. These processes are repeated once or more times.



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